

AMENDMENTS TO THE CLAIMS

Please **AMEND** the claims as shown below. This listing of claims will replace all prior versions of claims in the application.

1. (Currently Amended) A feeding pump device of volume tube continually metering type comprising:

a single volume tube [(1)] having a metering volume section [(11)] defined therein;

a dragging mechanism [(2)];

two unilateral inlet valves [(8)] and two unilateral outlet valves [(7)] in two respective ends of an inner wall of the single volume tube thereof respectively; and

a piston (9), ~~wherein the piston (9) is~~ connected to the dragging mechanism [(2)].

2. (Currently Amended) A feeding pump device of volume tube continually metering type of claim 1, wherein a grating ruler [(4)] is set on a moving route of a dragging rod of the ~~mentioned~~ piston [(9)].

3. (Currently Amended) A feeding pump device of volume tube continually metering type of claim 2, wherein the ~~mentioned~~ dragging mechanism [(2)] also includes a servo motor [(22)], a belt gear [(21)], a lead screw [(23)] and a lead screw nut [(25)], which are mechanically connected such that the servo motor [(22)] turns the belt gear [(21)] which rotates the lead screw [(23)], which move the lead screw nut [(25)].

DO NOT ENTER: /B.L./

Appl. No. 10/588,271
Attorney Docket No. 27604U
Response to Final Office Action mailed
March 10, 2010

4. (Currently Amended) A feeding pump device of volume tube continually metering type of claim 3, wherein a casing pipe ~~[(6)]~~ connected with the lead screw ~~[(23)]~~ and with the ~~mentioned~~ piston ~~[(9)]~~ is independent of the lead screw ~~[(23)]~~.

5. (Currently Amended) A feeding pump device of volume tube continually metering type of claim 4, wherein the ~~mentioned~~ dragging mechanism ~~[(2)]~~ is a linear motor.